

Work Order ID 100053

April-17-13 12:54:58 PM

ASAP

\*100053\*

Page

Item ID: D4008-043

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Item Name: Fuel Pump Splash Guard Assembly

Start Date: 4/17/13 Start Qty: 6.00

\*6\*

Required Date: 4/22/13 Req'd Qty: 6.00

\*6\*

Reference:

Cust Item ID:

Customer:

Approvals: Process Plan: MUS

Date: 13-04-17 Tooling:

Date:

Run Start

\*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop

\*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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D4008	C	0.00							
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100		0.00							
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*100*									
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Waterjet	Memo	0.00							
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FLOW CNC Waterjet	1-Cut as per Dwg (D4008-3)								
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304.025	Dwg Rev: C								
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	Prog Rev: C								
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2-Deburr if necessary

110	QC2- Inspect parts off machine FAI/FAIB	0.00							
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*110*									
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QC	Memo	0.00							
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Quality Control									
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7 0 Jm13-4-18

7 0 Jm13-4-18

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:				DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part No.:				Rework	<input type="checkbox"/>	Skid-tube	<input type="checkbox"/>	Crosstube	<input type="checkbox"/>	Water Jet	<input type="checkbox"/>	Engineering	<input type="checkbox"/>
NCR No.:				Scrap	<input type="checkbox"/>	Machining	<input type="checkbox"/>	Small Fab	<input type="checkbox"/>	Prod. Eng. Coor.	<input type="checkbox"/>	Quality	<input type="checkbox"/>
				Use-as-is	<input type="checkbox"/>	Thermoforming	<input type="checkbox"/>	Finishing	<input type="checkbox"/>	Rec/Store/Packaging	<input type="checkbox"/>	Other	<input type="checkbox"/>
				Work Order Update	<input type="checkbox"/>	Large Fab	<input type="checkbox"/>	Composite	<input type="checkbox"/>	Supplier	<input type="checkbox"/>		
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector		
Doc/Data													
Equip/Tooling													
Operator													
Material													
Setup													
Other													
Process													
Supplier													
Training													
Unapproved													
FAULT CATEGORY													
Landing Gear				General									
	Bending	<input type="checkbox"/>	Bend	<input type="checkbox"/>	Grain	<input type="checkbox"/>	Ovalized	<input type="checkbox"/>	Pressure/Forced	<input type="checkbox"/>	Temperature/Cure	<input type="checkbox"/>	
	Centre Not Concentric to O/S	<input type="checkbox"/>	BOM/Route	<input type="checkbox"/>	Hardware	<input type="checkbox"/>	Over/Under tolerance	<input type="checkbox"/>	Weld	<input type="checkbox"/>	Weld	<input type="checkbox"/>	
	Cracks	<input type="checkbox"/>	Broken/Damaged	<input type="checkbox"/>	Inspection Incomplete	<input type="checkbox"/>	Part Incorrect	<input type="checkbox"/>	Wrong Stock Pulled	<input type="checkbox"/>	Wrong Stock Pulled	<input type="checkbox"/>	
	Crushed/Crimped	<input type="checkbox"/>	Burrs	<input type="checkbox"/>	Instructions Incomplete/Unclear	<input type="checkbox"/>	Part Lost/Missing	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other	<input type="checkbox"/>	
	Cuffs	<input type="checkbox"/>	Contamination	<input type="checkbox"/>	Maintenance	<input type="checkbox"/>	Part Moved	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	Heat Treat	<input type="checkbox"/>	Countersink	<input type="checkbox"/>	Mislabeled	<input type="checkbox"/>	Positioned Wrong	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	Inspection Strip in Tube	<input type="checkbox"/>	Cut Too Short	<input type="checkbox"/>	Misread	<input type="checkbox"/>	Power Loss/Surge	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	Ripples in Bend	<input type="checkbox"/>	Drill Holes	<input type="checkbox"/>	Offset	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	Torque Waves in Extrusion	<input type="checkbox"/>	Drawing	<input type="checkbox"/>	Out of Calibration	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	Turning Sequence	<input type="checkbox"/>	Finish	<input type="checkbox"/>	Out of Sequence	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	Wave/Twist in Tube	<input type="checkbox"/>	Folio	<input type="checkbox"/>	Outside Dimensions	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

Work Order ID 100053

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\*100053\*

Page 2

Item ID: D4008-043

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Item Name: Fuel Pump Splash Guard Assembly

Start Date: 4/17/13 Start Qty: 6.00

\*6\*

Cust Item ID:

Required Date: 4/22/13 Req'd Qty: 6.00

\*6\*

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start

\*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop

\*NR2\*

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

120

QC8- Inspect parts - second check

0.00

27

134.18

7

\*120\*

QC

Quality Control

Memo

130

Bend as per dwg

0.00

\*130\*

Brake NC

Brake NC

Memo

0.00

1- Bend as per dwg  
2- Dimpled as per dwg

SB  
13/04/23

SD  
13/04/23

140

QC5- Inspect part completeness to step on W/O

0.00

Das  
21  
28

0.00

134.23

7

\*140\*

QC

Quality Control

Memo

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:			DISPOSITION			AGAINST DEPARTMENT/PROCESS						
			Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>					
			Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>					
			Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>					
			Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>						
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector	
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup												
Other												
Process												
Supplier												
Training												
Unapproved												
FAULT CATEGORY												
Landing Gear	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence Wave/Twist in Tube			General								
				<input type="checkbox"/>	Bend	<input type="checkbox"/>	Grain	<input type="checkbox"/>	Ovalized	<input type="checkbox"/>	Pressure/Forced	
				<input type="checkbox"/>	BOM/Route	<input type="checkbox"/>	Hardware	<input type="checkbox"/>	Over/Under tolerance	<input type="checkbox"/>	Temperature/Cure	
				<input type="checkbox"/>	Broken/Damaged	<input type="checkbox"/>	Inspection Incomplete	<input type="checkbox"/>	Part Incorrect	<input type="checkbox"/>	Weld	
				<input type="checkbox"/>	Burrs	<input type="checkbox"/>	Instructions Incomplete/Unclear	<input type="checkbox"/>	Part Lost/Missing	<input type="checkbox"/>	Wrong Stock Pulled	
				<input type="checkbox"/>	Contamination	<input type="checkbox"/>	Maintenance	<input type="checkbox"/>	Part Moved	<input type="checkbox"/>		
				<input type="checkbox"/>	Countersink	<input type="checkbox"/>	Mislabeled	<input type="checkbox"/>	Positioned Wrong	<input type="checkbox"/>		
				<input type="checkbox"/>	Cut Too Short	<input type="checkbox"/>	Misread	<input type="checkbox"/>	Power Loss/Surge	<input type="checkbox"/>	Other	
				<input type="checkbox"/>	Drill Holes	<input type="checkbox"/>	Offset	<input type="checkbox"/>		<input type="checkbox"/>		
				<input type="checkbox"/>	Drawing	<input type="checkbox"/>	Out of Calibration	<input type="checkbox"/>		<input type="checkbox"/>		
				<input type="checkbox"/>	Finish	<input type="checkbox"/>	Out of Sequence	<input type="checkbox"/>		<input type="checkbox"/>		
				<input type="checkbox"/>	Folio	<input type="checkbox"/>	Outside Dimensions	<input type="checkbox"/>		<input type="checkbox"/>		

## Work Order ID 100053

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\*100053\*

Page 3

Item ID: D4008-043

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Item Name: Fuel Pump Splash Guard Assembly

Start Date: 4/17/13 Start Qty: 6.00

\*6\*

Cust Item ID:

Required Date: 4/22/13 Req'd Qty: 6.00

\*6\*

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start

\*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop

\*NR2\*

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

160

\*160\*

Powdercoat

Powder Coating

m118533

Gloss Grey (4.3.5.15) per QSI 005 4.3

0.00

Memo

3:45

0.00

7x 13/04/25

170

\*170\*

QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

320°F  
4:15

0.00

7 13/04/26



180

\*180\*

Small Fab

Memo

0.00

Small Fab

Assemble as per dwg

0.00

7x 13/04/25

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:			DISPOSITION			AGAINST DEPARTMENT/PROCESS						
Part No.	Rework	Scrap	Skid-tube	Crosstube	Water Jet	Engineering						
NCR No.	Use-as-is	Thermoforming	Machining	Small Fab	Prod. Eng. Coor.	Quality						
	Work Order Update		Large Fab	Finishing	Rec/Store/Packaging	Other						
				Composite	Supplier							
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector	
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup												
Other												
Process												
Supplier												
Training												
Unapproved												
FAULT CATEGORY												
Landing Gear	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence Wave/Twist in Tube			General								
				Bend	Grain	Ovalized	Pressure/Forced					
					Hardware	Over/Under tolerance	Temperature/Cure					
					Broken/Damaged	Part Incorrect	Weld					
					Burrs	Part Lost/Missing	Wrong Stock Pulled					
					Contamination	Part Moved						
					Countersink	Positioned Wrong						
					Cut Too Short	Power Loss/Surge	Other					
					Drill Holes							
					Drawing							
					Finish							
					Folio							

Work Order ID 100053

April-17-13 12:54:59 PM

\*100053\*

Page 4

Item ID: D4008-043

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Item Name: Fuel Pump Splash Guard Assembly

Stop

\*NS2\*

Start Date: 4/17/13 Start Qty: 6.00

\*6\*

Required Date: 4/22/13 Req'd Qty: 6.00

\*6\*

Cust Item ID:

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start

\*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop

\*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190 <b>*190*</b> QC Quality Control	QC5- Inspect part completeness to step on W/O  Memo	0.00 0.00	AS 21			7			
200 <b>*200*</b> Packaging Packaging	Identify as per dwg & Stock Location:  Memo	0.00	RTDPA			7x			SO 13-4-30
210 <b>*210*</b> QC Quality Control	QC21- Final Inspection - Work Order Release  Memo	0.00 0.00				13/5/6/7/8			

PLB-04-30

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:		DISPOSITION				AGAINST DEPARTMENT/PROCESS						
		Rework	Skid-tube	Crosstube	Water Jet	Engineering						
		Scrap	Machining	Small Fab	Prod. Eng. Coor.	Quality						
		Use-as-is	Thermoforming	Finishing	Rec/Store/Packaging	Other						
		Work Order Update	Large Fab	Composite	Supplier							
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector	
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup												
Other												
Process												
Supplier												
Training												
Unapproved												
FAULT CATEGORY												
Landing Gear	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence Wave/Twist in Tube			General								
				Bend	Grain	Ovalized	Pressure/Forced					
					Hardware	Over/Under tolerance	Temperature/Cure					
					Broken/Damaged	Part Incorrect	Weld					
					Burrs	Part Lost/Missing	Wrong Stock Pulled					
					Contamination	Part Moved						
					Countersink	Positioned Wrong						
					Cut Too Short	Power Loss/Surge	Other					
					Drill Holes							
					Drawing							
					Finish							
					Folio							

Picklist Print

April-17-13 12:55:02 PM

Page 1

Work Order ID: 100053

Parent Item: D4008-043

Parent Item Name: Fuel Pump Splash Guard Assembly

\*100053\*  
\*D4008-043\*

Start Date: 4/17/13

Start Qty: 6.00

Required Date: 4/22/13

Required Qty: 6.00

Comments: IPP rev A 10.01.27 New issue Prelim EC verified by:DD IPP Rev:B 10.05.03 as per ECN10-562 DD verified by:EC IPP REV:C 12.03.07 AS PER DWG REV.C DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S24GA		Purchased	No			100	sf	131.8300	0.441	2785263	**	3.0	Jm3-4-18

\*M304S24GA\*

304/316 .025 Sheet

Location	Loc Qty	Loc Code
MAT020	131.83	

106236	25.8
107244	14.53
115389	91.5

D4597-1

\*D4597-1\*

Placard

Manufactured	No	180	Each	15.0000	1	**
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Location	Loc Qty	Loc Code
ST115	15	

87045	15	
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MS20472M3-3

\*MS20472M3-3\*

Rivet

Purchased	No	180	Each	136.0000	8	**
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Location	Loc Qty	Loc Code
ST335	136	

122141	136	
--------	-----	--

MS21060L3

\*MS21060L3\*

Anchor nut

Purchased	No	180	Each	50.0000	4	**
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Location	Loc Qty	Loc Code
ST316	50	

118006	50	
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Jm3-4-18

115389

6

7

48

24

50

M124231 (56)

280

M125098 (280)

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: Date:

Work Order:				DISPOSITION		AGAINST DEPARTMENT/PROCESS									
Part No.:				Rework	<input type="checkbox"/>	Skid-tube	<input type="checkbox"/>	Crosstube	<input type="checkbox"/>	Water Jet	<input type="checkbox"/>	Engineering	<input type="checkbox"/>		
NCR No.:				Scrap	<input type="checkbox"/>	Machining	<input type="checkbox"/>	Small Fab	<input type="checkbox"/>	Prod. Eng. Coor.	<input type="checkbox"/>	Quality	<input type="checkbox"/>		
				Use-as-is	<input type="checkbox"/>	Thermoforming	<input type="checkbox"/>	Finishing	<input type="checkbox"/>	Rec/Store/Packaging	<input type="checkbox"/>	Other	<input type="checkbox"/>		
				Work Order Update	<input type="checkbox"/>	Large Fab	<input type="checkbox"/>	Composite	<input type="checkbox"/>	Supplier	<input type="checkbox"/>				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector				
Doc/Data															
Equip/Tooling															
Operator															
Material															
Setup															
Other															
Process															
Supplier															
Training															
Unapproved															
FAULT CATEGORY															
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio				<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled	
														<input type="checkbox"/> Other	

DART AEROSPACE LTD	Work Order:	100053
Description: Fuel Pump Splash Guard Cover	Part Number:	D4008-3
Inspection Dwg: D4008      Rev: C		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

©A.S.

Measured by: <u>Jin</u>	Audited by: <u>27</u> <u>9-18</u>	Preliminary Approval:
Date: <u>13-4-18</u>	Date: <u>13-4-18</u>	Date:

Rev	Date	Change	Revised by	Approved
A	10.09.23	New Issue P/O D4008-043	KJ	
B	12.05.15	Dwg Rev updated	KJ	

NCR: Yes / No

DQA:

Date:

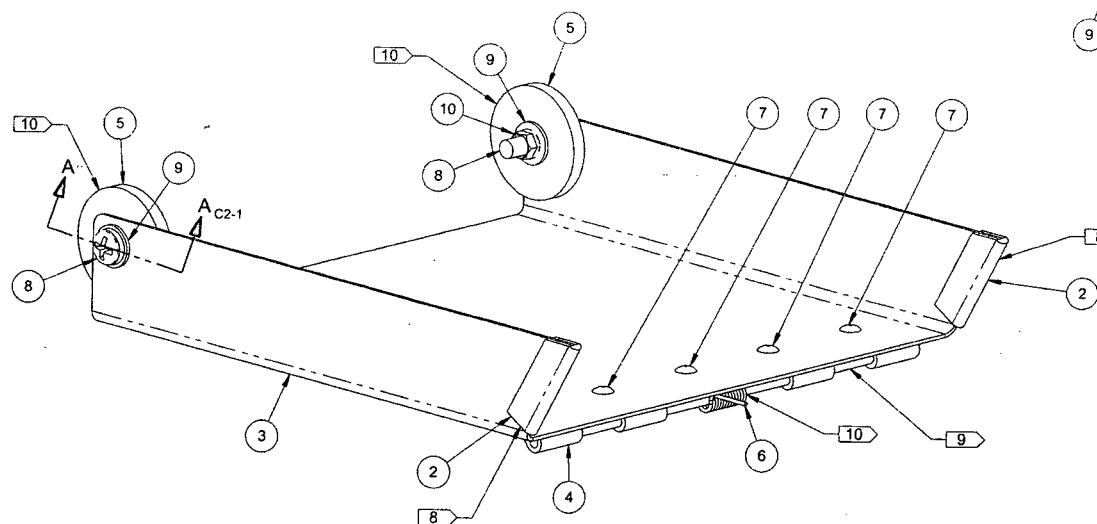
## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS						
				<input type="checkbox"/> Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update	<input type="checkbox"/> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab	<input type="checkbox"/> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite	<input type="checkbox"/> Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier	<input type="checkbox"/> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other				
Root Cause		Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup												
Other												
Process												
Supplier												
Training												
Unapproved												
FAULT CATEGORY												
Landing Gear				General								
				Bending	Bend	Grain	Ovalized	Pressure/Forced				
				BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure					
				Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld					
				Burrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled					
				Contamination	Maintenance	Part Moved						
				Countersink	Mislabeled	Positioned Wrong						
				Cut Too Short	Misread	Power Loss/Surge						
				Drill Holes	Offset							
				Drawing	Out of Calibration							
				Finish	Out of Sequence							
				Folio	Outside Dimensions							

A. NO.	QTY	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4008-041	AUX TANK FILLER SPLASH GUARD ASSEMBLY	JCA-M47-2-26
2	2	D3941-1	RUBBER CUSHION	
3	1	D4008-1	FUEL FILLER SPLASH GUARD CHANNEL	
4	1	D4008-5	HINGE HALF	
5	2	D4008-7	WASHER	
6	1	D4008-9	SPRING	
7	5	MS20470AD3-3	RIVET	
8	2	MS35206S245	SCREW	
9	6	NAS1149DN832J	WASHER	
10	2	MS21042L08	NUT	



SECTION A-A  
SCALE: 2X  
B6-1  
TYP

RELEASED  
2012-03-02  
JW

D4008-041 AUX TANK FILLER SPLASH GUARD ASSEMBLY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT "ANSI 61 GREY" (4.3.5.15) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER DART QSI 044 6.1
- 7) WEIGHT: 0.15 lbs
- 8) ATTACH D3941-1 RUBBER CUSHION USING SILICONE ADHESIVE, TRIM TO FIT, AFTER POWDER COAT
- 9) MASK HINGE PIN AREA BEFORE POWDER COAT
- 10) INSTALL D4008-7 WASHER AND D4008-9 SPRING AFTER POWDER COAT

C	CHANGE POWDER COAT FROM "GREY SANTEX" TO "ANSI 61 GREY"- CORRECT MATERIAL ERROR, ZN A7-6. ADD D4597-1 TO D4008-043, ZN C4-2.		DC	12.01.17
B	ADD ALTERNATE RIVETS FOR -043, ZN D7-2		HS	10.11.03
A	NEW ISSUE		HS	10.02.05
REV.	DESCRIPTION	BY	DATE	
DESIGN	<i>PC</i>	DART AEROSPACE LTD		
DRAWN	<i>PC</i>	HAWKESBURY, ONTARIO, CANADA		
CHECKED	<i>PC</i>	DRAWING NO.	REV. C	
MFG. APPR.	<i>PC</i>	D4008	SHEET 1 OF 10	
APPROVED	<i>PC</i>	TITLE	SCALE	
DE APPR.	<i>PC</i>	SPLASH GUARD	NTS	
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8 7 6 5 4 3 2 1

SHOP COPY  
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UNCONTROLLED COPY  
SUBJECT TO AMENDMENT

WITHOUT NOTICE  
WORK ORDER  
NO 1000.53 ML5  
13-04-17

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

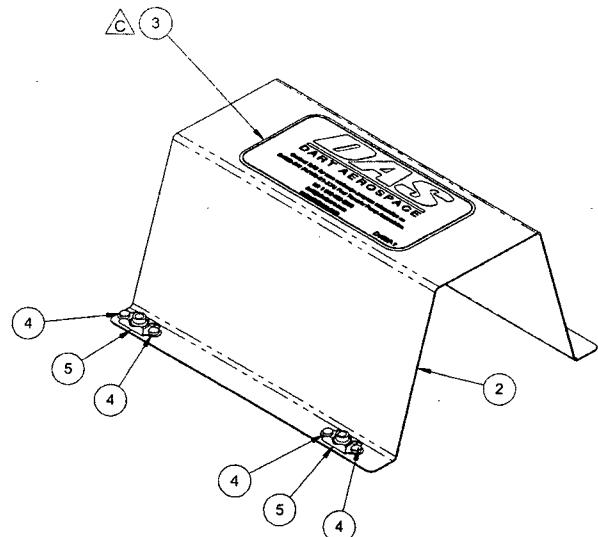
QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:			DISPOSITION			AGAINST DEPARTMENT/PROCESS						
			Rework	Skid-tube	Crosstube	Water Jet	Engineering					
			Scrap	Machining	Small Fab	Prod. Eng. Coor.	Quality					
			Use-as-is	Thermoforming	Finishing	Rec/Store/Packaging	Other					
			Work Order Update	Large Fab	Composite	Supplier						
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector	
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup												
Other												
Process												
Supplier												
Training												
Unapproved												
FAULT CATEGORY												
Landing Gear	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence Wave/Twist in Tube			General								
				<input type="checkbox"/> Bend	<input type="checkbox"/> Grain	<input type="checkbox"/> Ovalized	<input type="checkbox"/> Pressure/Forced					
				<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware	<input type="checkbox"/> Over/Under tolerance	<input type="checkbox"/> Temperature/Cure					
				<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Weld					
				<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Wrong Stock Pulled					
				<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Part Moved						
				<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Positioned Wrong						
				<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread	<input type="checkbox"/> Power Loss/Surge						
				<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset	<input type="checkbox"/> Other						
				<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration							
				<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence							
				<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions							

100053

ITEM NO.	QTY	PART NUMBER	DESCRIPTION	JOHN CAMERON AVA-10 PART NUMBER
1	X	D4008-043	FUEL PUMP SPLASH GUARD ASSMBLY	JCA-M47-2-29
2	1	D4008-3	FUEL PUMP SPLASH GUARD COVER	
3	1	D4597-1	PLACARD	
4	8	MS20472M3.3	RIVET	
5	4	MS21060L3V	ANCHOR NUT	

( D45  
22  
289



**D4008-043 FUEL PUMP SPLASH GUARD ASSEMBLY**

RELEASED  
2012-03-02  
MP

**NOTES:**  
1) MATERIAL:  
2) FINISH: POWDER COAT "ANSI 61 GREY" (4.3.5.15) PER DART QSI 005 4.3  
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
4) UNITS: INCHES UNLESS OTHERWISE NOTED  
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
6) IDENTIFICATION: IDENTIFY PER DART QSI 044 6.1  
7) WEIGHT: 0.46 lbs

DESIGN	<i>BS</i>	DART AEROSPACE LTD		
DRAWN	<i>BC</i>	HAWKESBURY, ONTARIO, CANADA		
CHECKED	<i>BS</i>	DRAWING NO.	REV. C	
MFG. APPR.	<i>FB</i>	D4008	SHEET 2 OF 10	
APPROVED	<i>BS</i>	TITLE	SCALE	
DE APPR.	<i>BS</i>	SPLASH GUARD	NTS	
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NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:	DISPOSITION			AGAINST DEPARTMENT/PROCESS															
Part No.:	Rework	Scrap	Use-as-is	Work Order Update	Skid-tube	Machining	Thermoforming	Large Fab	Crosstube	Small Fab	Finishing	Composite	Water Jet	Prod. Eng. Coor.	Rec/Store/Packaging	Supplier	Engineering	Quality	Other
NCR No.:																			
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date		Verification		QC Inspector						
Doc/Data																			
Equip/Tooling																			
Operator																			
Material																			
Setup																			
Other																			
Process																			
Supplier																			
Training																			
Unapproved																			
FAULT CATEGORY																			
Landing Gear	General																		
	Bending	Bend	Grain	Ovalized	Pressure/Forced														
	Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure														
	Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld														
	Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled														
	Cuffs	Contamination	Maintenance	Part Moved															
	Heat Treat	Countersink	Mislabeled	Positioned Wrong															
	Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge															
	Ripples in Bend	Drill Holes	Offset		Other														
	Torque Waves in Extrusion	Drawing	Out of Calibration																
	Turning Sequence	Finish	Out of Sequence																
	Wave/Twist in Tube	Folio	Outside Dimensions																

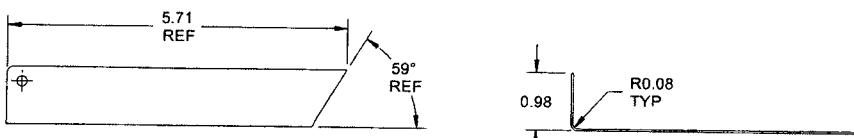
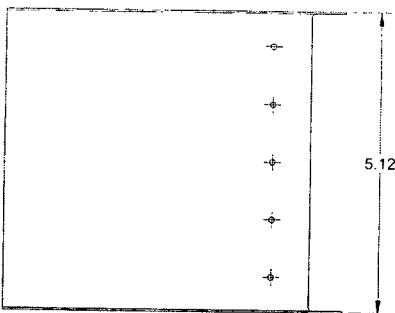
DART AEROSPACE  
PART NUMBER

JOHN CAMERON AVIATION  
PART NUMBER

D4008

REF JCA-M4/246

100053



D4008-1 FUEL FILLER SPLASH GUARD CHANNEL

NOTES:

- 1) MATERIAL: MADE FROM D4008-1F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.11 lbs

8 7 6 5 4 3 2 1

DESIGN	<i>SC</i>	DART AEROSPACE LTD
DRAWN	<i>SC</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>EE</i>	DRAWING NO. D4008
MFG. APPR.	<i>EE</i>	REV. C
APPROVED	<i>MM</i>	SHEET 3 OF 10
DE APPR.	<i>MM</i>	TITLE SPLASH GUARD
DATE	12.01.17	SCALE NTS

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RELEASED  
2012-03-02  
JW

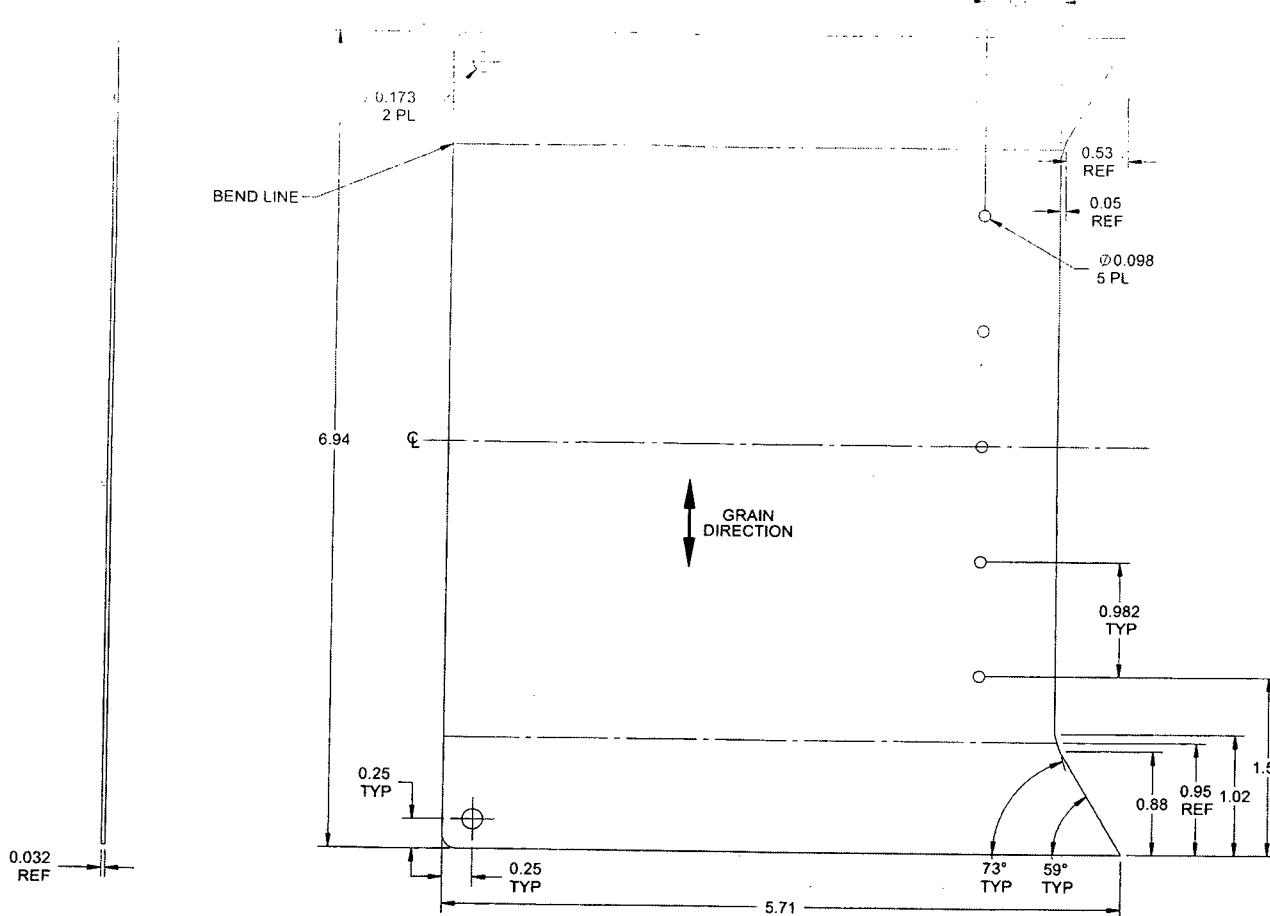
NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:			DISPOSITION			AGAINST DEPARTMENT/PROCESS					
Part No.	Rework	Scrap	Skid-tube	Crosstube	Water Jet	Engineering					
NCR No.	Use-as-is	Thermoforming	Machining	Small Fab	Prod. Eng. Coor.	Quality					
	Work Order Update		Large Fab	Finishing	Rec/Store/Packaging	Other					
			Composite		Supplier						
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence Wave/Twist in Tube			General							
				Bend	Grain	Ovalized	Pressure/Forced				
					Hardware	Over/Under tolerance	Temperature/Cure				
					Broken/Damaged	Part Incorrect	Weld				
					Burrs	Part Lost/Missing	Wrong Stock Pulled				
					Contamination	Part Moved					
					Countersink	Positioned Wrong					
					Cut Too Short	Power Loss/Surge	Other				
					Drill Holes						
					Drawing						
					Finish						
					Folio						



D4008-1F FLAT PATTERN

## NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET, 0.032 THICK PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 REF DART SPEC M6061T6S.032
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.11 lbs

8

7

6

5

4

3

2

1

DESIGN	<i>DC</i>	DART AEROSPACE LTD
DRAWN	<i>DC</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>EE</i>	REV. C
MFG. APPR.	<i>EE</i>	DRAWING NO. D4008 SHEET 4 OF 10
APPROVED	<i>DC</i>	TITLE SPLASH GUARD
DE APPR.	<i>DC</i>	SCALE NTS
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NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

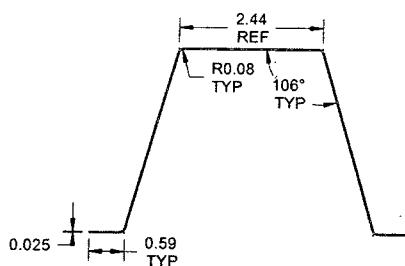
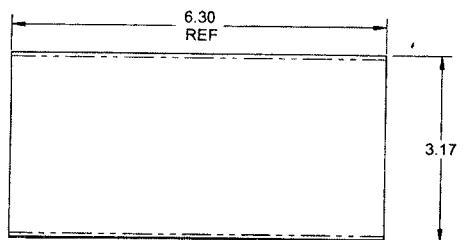
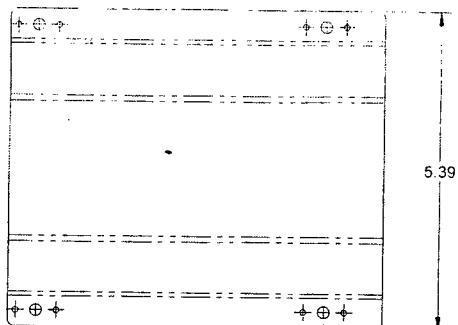
QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:			DISPOSITION			AGAINST DEPARTMENT/PROCESS					
Part No.	Rework	Scrap	Skid-tube	Crosstube	Water Jet	Engineering					
NCR No.	Use-as-is	Thermoforming	Small Fab	Prod. Eng. Coor.	Prod. Eng. Coor.	Quality					
	Work Order Update	Large Fab	Finishing	Rec/Store/Packaging	Rec/Store/Packaging	Other					
			Composite	Supplier							
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear	Bending	General	Grain	Ovalized	Pressure/Forced						
	Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure						
	Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld						
	Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled						
	Cuffs	Contamination	Maintenance	Part Moved							
	Heat Treat	Countersink	Mislabeled	Positioned Wrong							
	Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge	Other						
	Ripples in Bend	Drill Holes	Offset								
	Torque Waves in Extrusion	Drawing	Out of Calibration								
	Turning Sequence	Finish	Out of Sequence								
	Wave/Twist in Tube	Folio	Outside Dimensions								

DART AEROSPACE  
PART NUMBER  
D4008-3

JOHN C. AMERON AVIATION  
PART NUMBER  
REF: D408-3M412-00

100053



D4008-3 FUEL PUMP SPLASH GUARD COVER

NOTES:

- 1) MATERIAL: MADE FROM D4008-3F
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.45 lbs

8

7

6

5

4

3

2

1

DESIGN	<i>BC</i>	DART AEROSPACE LTD	
DRAWN	<i>BC</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>BC</i>	REV. C	
MFG. APPR.	<i>BC</i>	D4008	SHEET 5 OF 10
APPROVED	<i>BC</i>	TITLE	SCALE
DE APPR.	<i>BC</i>	SPLASH GUARD	NTS
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BASED  
2012-03-02  
*BC*

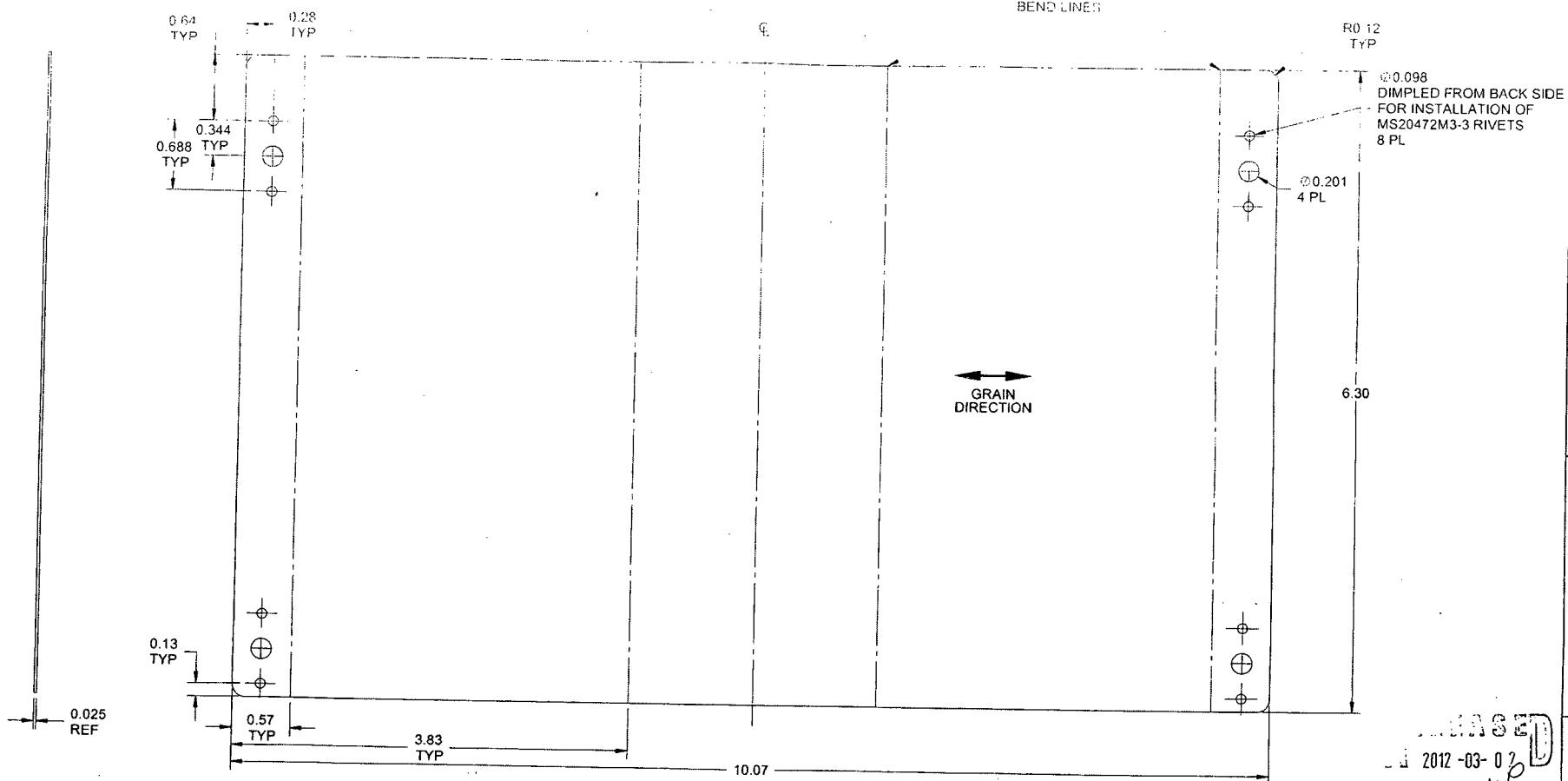
NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:		DISPOSITION				AGAINST DEPARTMENT/PROCESS														
Part No.:		Rework	Scrap	Use-as-is	Work Order Update	Skid-tube	Machining	Thermoforming	Large Fab	Crosstube	Small Fab	Finishing	Composite	Water Jet	Prod. Eng. Coor.	Rec/Store/Packaging	Supplier	Engineering	Quality	Other
NCR No.:																				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date		Verification		QC Inspector							
Doc/Data																				
Equip/Tooling																				
Operator																				
Material																				
Setup																				
Other																				
Process																				
Supplier																				
Training																				
Unapproved																				
FAULT CATEGORY																				
Landing Gear		General																		
		Bending	Bend	Grain	Ovalized	Pressure/Forced														
		Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure														
		Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld														
		Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled														
		Cuffs	Contamination	Maintenance	Part Moved															
		Heat Treat	Countersink	Mislabeled	Positioned Wrong															
		Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge	Other														
		Ripples in Bend	Drill Holes	Offset																
		Torque Waves in Extrusion	Drawing	Out of Calibration																
		Turning Sequence	Finish	Out of Sequence																
		Wave/Twist in Tube	Folio	Outside Dimensions																



NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 0.025 THICK  
PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316)  
OR ASTM A240 OR ASME SA240  
REF DART SPEC M304S24GA
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.45 lbs

D4008-3F FLAT PATTERN

8 1 7 1 6 1 5 1 4 1 3 1 2 1 1

DESIGN	<i>AB</i>	DART AEROSPACE LTD
DRAWN	<i>DC</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>AB</i>	DRAWING NO.
MFG. APPR.	<i>EE</i>	D4008
APPROVED	<i>AB</i>	REV. C
DE APPR.	<i>AB</i>	SHEET 6 OF 10
DATE	12.01.17	SCALE
		NTS

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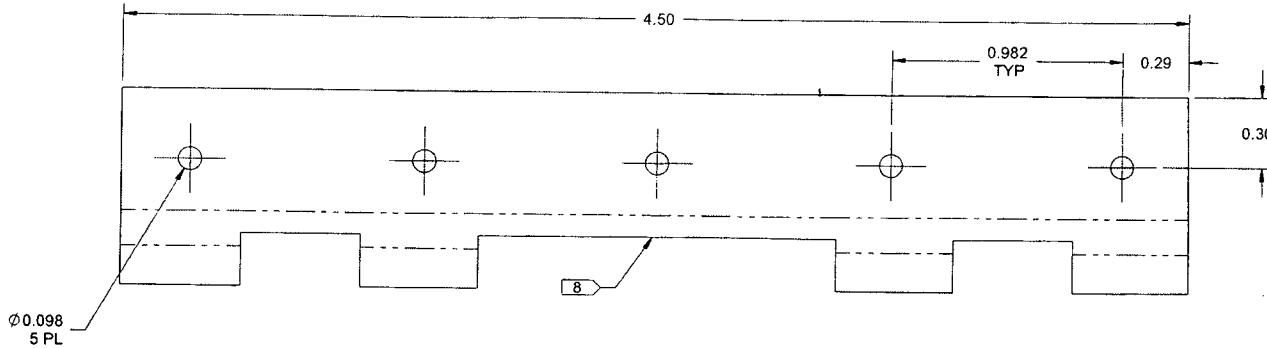
NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:	DISPOSITION			AGAINST DEPARTMENT/PROCESS						
Part No:	Rework	Scrap	Use-as-is	Skid-tube	Machining	Crosstube	Water Jet	Engineering		
NCR No:	Work Order Update			Thermoforming	Large Fab	Small Fab	Prod. Eng. Coor.	Quality		
				Finishing	Composite	Rec/Store/Packaging	Supplier	Other		
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data										
Equip/Tooling										
Operator										
Material										
Setup										
Other										
Process										
Supplier										
Training										
Unapproved										
FAULT CATEGORY										
Landing Gear	General									
	Bending	Bend	Grain	Ovalized	Pressure/Forced					
	Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure					
	Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld					
	Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled					
	Cuffs	Contamination	Maintenance	Part Moved						
	Heat Treat	Countersink	Mislabeled	Positioned Wrong						
	Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge						
	Ripples in Bend	Drill Holes	Offset		Other					
	Torque Waves in Extrusion	Drawing	Out of Calibration							
	Turning Sequence	Finish	Out of Sequence							
	Wave/Twist in Tube	Folio	Outside Dimensions							

D4008-5 HINGE HALF

NOTES:  
 1) MATERIAL: MADE FROM MS20001-4 HINGE OR MS20257-3 HINGE  
 2) FINISH: N/A  
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
 4) UNITS: INCHES UNLESS OTHERWISE NOTED  
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
 6) IDENTIFICATION: N/A  
 7) WEIGHT: 0.02 lbs  
 8) REMOVE CENTER LUG FROM THIS AREA, FLUSH WITH THIS EDGE

8 7 6 5 4 3 2 1

DESIGN	<i>SC</i>	DART AEROSPACE LTD
DRAWN	<i>SC</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>SC</i>	REV. C
MFG. APPR.	<i>SC</i>	D4008 SHEET 7 OF 10
APPROVED	<i>SC</i>	TITLE
DE APPR.	<i>SC</i>	SCALE
DATE	12.01.17	NTS

RELEASED  
2012-03-02  
*SC*

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NCR: Yes / No

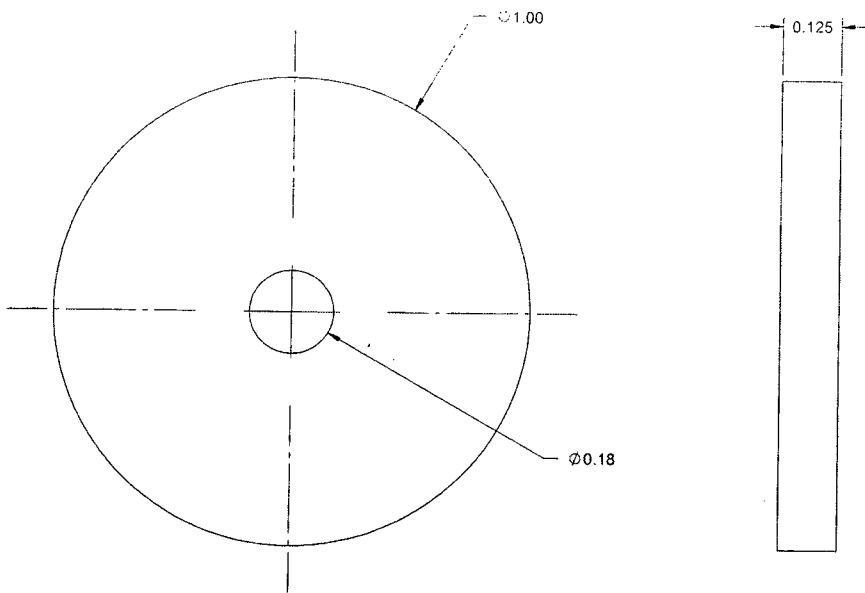
DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:				DISPOSITION		AGAINST DEPARTMENT/PROCESS									
Part No:				Rework	<input type="checkbox"/>	Skid-tube	<input type="checkbox"/>	Crosstube	<input type="checkbox"/>	Water Jet	<input type="checkbox"/>	Engineering	<input type="checkbox"/>		
NCR No:				Scrap	<input type="checkbox"/>	Machining	<input type="checkbox"/>	Small Fab	<input type="checkbox"/>	Prod. Eng. Coor.	<input type="checkbox"/>	Quality	<input type="checkbox"/>		
				Use-as-is	<input type="checkbox"/>	Thermoforming	<input type="checkbox"/>	Finishing	<input type="checkbox"/>	Rec/Store/Packaging	<input type="checkbox"/>	Other	<input type="checkbox"/>		
				Work Order Update	<input type="checkbox"/>	Large Fab	<input type="checkbox"/>	Composite	<input type="checkbox"/>	Supplier	<input type="checkbox"/>				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector				
Doc/Data															
Equip/Tooling															
Operator															
Material															
Setup															
Other															
Process															
Supplier															
Training															
Unapproved															
FAULT CATEGORY															
<input type="checkbox"/> Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio				<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled	
														<input type="checkbox"/> Other	

600053



**D4008-7 WASHER**

**NOTES:**

- 1) MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL, Ø 1.00 ROUND BAR, BLACK REF DART SPEC M-DELRIN-R1.000
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.00 lbs

8

10

1

1

1

DESIGN	<u>BS</u>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	<u>BC</u>			
CHECKED	<u>BS</u>	DRAWING NO.	REV. C	
MFG. APPR.	<u>PE</u>	D4008	SHEET 8 OF 10	
APPROVED	<u>AD</u>	TITLE		
DE APPR.	<u> </u>	SCALE		
DATE	12.01.17	NTS		

RELEASED  
2012-03-02  
MPL

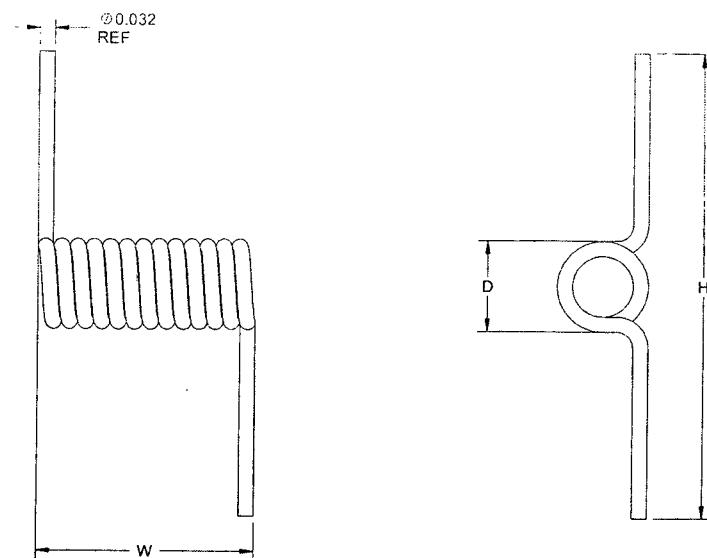
NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: Date:

Work Order:				DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part No.:				Rework	<input type="checkbox"/>	Skid-tube	<input type="checkbox"/>	Crosstube	<input type="checkbox"/>	Water Jet	<input type="checkbox"/>	Engineering	<input type="checkbox"/>
NCR No.:				Scrap	<input type="checkbox"/>	Machining	<input type="checkbox"/>	Small Fab	<input type="checkbox"/>	Prod. Eng. Coor.	<input type="checkbox"/>	Quality	<input type="checkbox"/>
				Use-as-is	<input type="checkbox"/>	Thermoforming	<input type="checkbox"/>	Finishing	<input type="checkbox"/>	Rec/Store/Packaging	<input type="checkbox"/>	Other	<input type="checkbox"/>
				Work Order Update	<input type="checkbox"/>	Large Fab	<input type="checkbox"/>	Composite	<input type="checkbox"/>	Supplier	<input type="checkbox"/>		
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector		
Doc/Data													
Equip/Tooling													
Operator													
Material													
Setup													
Other													
Process													
Supplier													
Training													
Unapproved													
FAULT CATEGORY													
Landing Gear				General									
Bending		Bend		Grain		Ovalized		Pressure/Forced					
Centre Not Concentric to O/S		BOM/Route		Hardware		Over/Under tolerance		Temperature/Cure					
Cracks		Broken/Damaged		Inspection Incomplete		Part Incorrect							
Crushed/Crimped.		Burrs		Instructions Incomplete/Unclear		Part Lost/Missing							
Cuffs		Contamination		Maintenance		Part Moved							
Heat Treat		Countersink		Mislabeled		Positioned Wrong							
Inspection Strip in Tube		Cut Too Short		Misread		Power Loss/Surge							
Ripples in Bend		Drill Holes		Offset									
Torque Waves in Extrusion		Drawing		Out of Calibration									
Turning Sequence		Finish		Out of Sequence									
Wave/Twist in Tube		Folio		Outside Dimensions									

SPECIFICATION CONTROL DRAWING

DART P/N	SUPPLIER	SUPPLIER P/N	WIDTH "W"	HEIGHT "H"	DIAMETER "D"	MATERIAL
D4008-9	VICTORY SPRING	N/A	0.46	0.99	0.19	STAINLESS STEEL SPRING WIRE
D4008-9	BELL HELICOPTER	206-031-140-001	0.46	0.99	0.19	STAINLESS STEEL SPRING WIRE

D4008-X SPRING

NOTES:  
 1) MATERIAL: T301 OR 304 STAINLESS STEEL SPRING WIRE Ø0.032 PER ASTM A313  
 2) FINISH: N/A  
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
 4) UNITS: INCHES UNLESS OTHERWISE NOTED  
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
 6) IDENTIFICATION: N/A  
 7) WEIGHT: 0.00 lbs

8 7 6 5 4 3 2 1

DESIGN	6	DART AEROSPACE LTD
DRAWN	DC	HAWKESBURY, ONTARIO, CANADA
CHECKED	EE	DRAWING NO. D4008
MFG. APPR.	EE	REV. C
APPROVED	MP	SHEET 9 OF 10
DE APPR.	MP	TITLE SPLASH GUARD
DATE	12.01.17	SCALE NTS

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2012-03-02  
MP

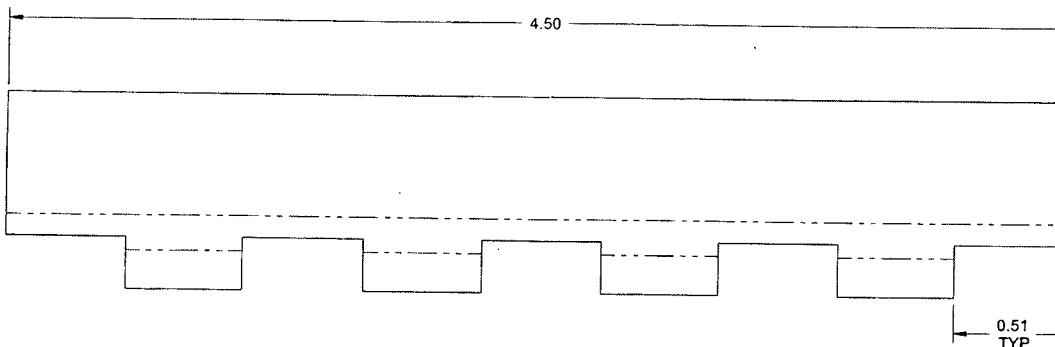
NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other			
Part No. _____		NCR No. _____									
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence Wave/Twist in Tube				General							
				Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish Folio		Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread Offset Out of Calibration Out of Sequence Outside Dimensions					



D4008-11 TANK HINGE HALF

NOTES:  
 1) MATERIAL: MADE FROM MS20001-4 HINGE OR MS20257-3 HINGE  
 2) FINISH: N/A  
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
 4) UNITS: INCHES UNLESS OTHERWISE NOTED  
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
 6) IDENTIFICATION: STOCK AS D4008-11  
 7) WEIGHT: 0.02 lbs

8 7 6 5 4 3 2 1

DESIGN	<i>SC</i>	DART AEROSPACE LTD
DRAWN	<i>SC</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>SC</i>	REV. C
MFG. APPR.	<i>SC</i>	D4008 SHEET 10 OF 10
APPROVED	<i>SC</i>	TITLE
DE APPR.	<i>SC</i>	SCALE
DATE	12.01.17	NTS

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*MAP*  
 2012-03-02

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order:	DISPOSITION				AGAINST DEPARTMENT/PROCESS				
Part No.:	Rework	Scrap	Use-as-is	Work Order Update	Skid-tube	Machining	Crosstube	Water Jet	Engineering
NCR No.:					Thermoforming	Large Fab	Small Fab	Prod. Eng. Coor.	Quality
					Composite		Finishing	Rec/Store/Packaging	Other
								Supplier	
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									
FAULT CATEGORY									
Landing Gear		General							
		Bending	Bend	Grain	Ovalized	Pressure/Forced			
		Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure			
		Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld			
		Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled			
		Cuffs	Contamination	Maintenance	Part Moved				
		Heat Treat	Countersink	Mislabeled	Positioned Wrong				
		Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge				
		Ripples in Bend	Drill Holes	Offset		Other			
		Torque Waves in Extrusion	Drawing	Out of Calibration					
		Turning Sequence	Finish	Out of Sequence					
		Wave/Twist in Tube	Folio	Outside Dimensions					